

Anti-Dnmt3b antibody ab122932

[15 References](#) [画像数 4](#)

製品の概要

製品名	Anti-Dnmt3b antibody
製品の詳細	Rabbit polyclonal to Dnmt3b
由来種	Rabbit
アプリケーション	適用あり: IHC-Fr, WB, ICC/IF
種交差性	交差種: Mouse
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	Solubilized mouse embryos at the stages of E7.0-E16.5; transiently transfected 293T cells; E4.5, 5.5 and 7.0 mouse embryo sections.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 6 Preservative: 0.05% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), Ammonium sulphate trace of ammonium sulphate only
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

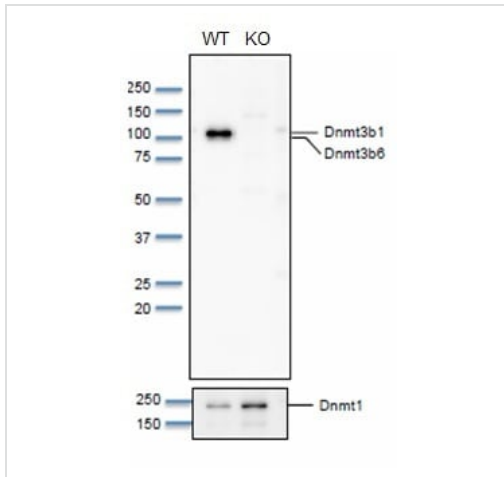
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab122932の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-Fr		1/2000 - 1/5000.
WB		1/3000. Predicted molecular weight: 96 kDa.
ICC/IF		1/5000.

ターゲット情報

機能	Required for genome wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation of histones. May preferentially methylates nucleosomal DNA within the nucleosome core region. May function as transcriptional co-repressor by associating with CBX4 and independently of DNA methylation. Seems to be involved in gene silencing (By similarity). In association with DNMT1 and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9. Isoforms 4 and 5 are probably not functional due to the deletion of two conserved methyltransferase motifs.
組織特異性	Ubiquitous; highly expressed in fetal liver, heart, kidney, placenta, and at lower levels in spleen, colon, brain, liver, small intestine, lung, peripheral blood mononuclear cells, and skeletal muscle. Isoform 1 is expressed in all tissues except brain, skeletal muscle and PBMC, 3 is ubiquitous, 4 is expressed in all tissues except brain, skeletal muscle, lung and prostate and 5 is detectable only in testis and at very low level in brain and prostate.
関連疾患	Defects in DNMT3B are a cause of immunodeficiency-centromeric instability-facial anomalies syndrome (ICF) [MIM:242860]. ICF is a rare autosomal recessive disorder characterized by a variable immunodeficiency, mild facial anomalies, and centromeric heterochromatin instability involving chromosomes 1, 9, and 16. ICF is biochemically characterized by hypomethylation of CpG sites in some regions of heterochromatin.
配列類似性	Belongs to the C5-methyltransferase family. Contains 1 ADD domain. Contains 1 GATA-type zinc finger. Contains 1 PHD-type zinc finger. Contains 1 PWWP domain.
ドメイン	The PWWP domain is essential for targeting to pericentric heterochromatin.
翻訳後修飾	Sumoylated.
細胞内局在	Nucleus.

画像



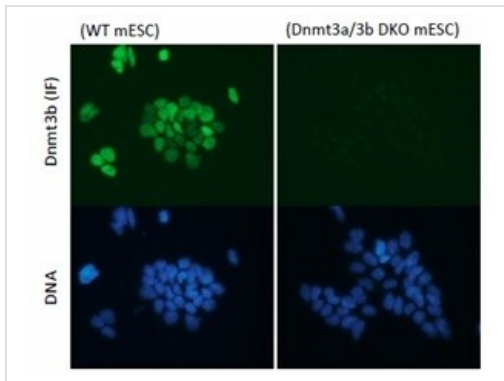
Western blot - Anti-Dnmt3b antibody (ab122932)

All lanes : Anti-Dnmt3b antibody (ab122932) at 1/3000 dilution

Lane 1 : wild-type mouse embryonic stem cell lysate with 5% skim milk

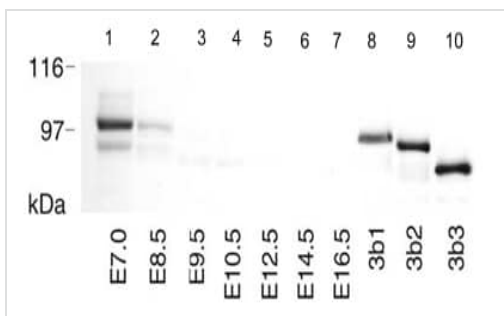
Lane 2 : Dnmt3b/3a knockout mouse embryonic stem cell lysate with 5% skim milk

Predicted band size: 96 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Dnmt3b antibody (ab122932)

Immunocytochemistry/ Immunofluorescence analysis of wild-type (left) and Dnmt3b/3a knockout (right) mouse embryonic stem cells using ab122932 at 1/5000 dilution. DNA was stained with DAPI (bottom). Cell were fixed with 4% PFA/PBS for 30 min at 4°C.



Western blot - Anti-Dnmt3b antibody (ab122932)

All lanes : Anti-Dnmt3b antibody (ab122932) at 1/1000 dilution

Lane 1 : stages E7.0 solubilized mouse embryo at 10 µg

Lane 2 : stages E8.5 solubilized mouse embryo at 10 µg

Lane 3 : stages E9.5 solubilized mouse embryo at 10 µg

Lane 4 : stages E10.5 solubilized mouse embryo at 10 µg

Lane 5 : stages E12.5 solubilized mouse embryo at 10 µg

Lane 6 : stages E14.5 solubilized mouse embryo at 10 µg

Lane 7 : stages E16.5 solubilized mouse embryo at 10 µg

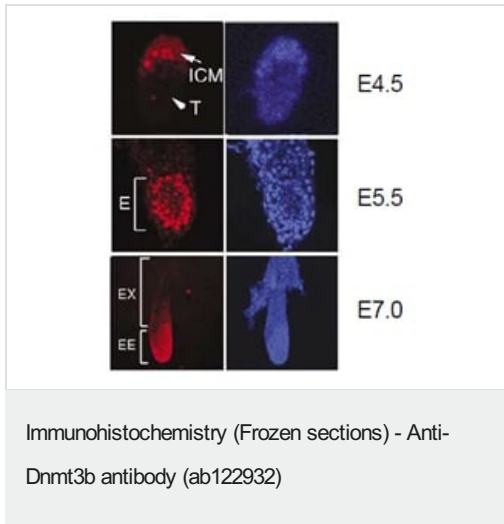
Lane 8 : 293T cells transiently transfected with 3b1 isoform of Dnmt3b

Lane 9 : 293T cells transiently transfected with 3b2 isoform of Dnmt3b

Lane 10 : 293T cells transiently transfected with 3b3 isoform of Dnmt3b

Predicted band size: 96 kDa

The embryos were solubilized by sonication or homogenization in the presence of 0.1% SDS.



Expression of Dnmt3b in mouse embryos was examined by immuno-fluorescence staining using 1/1000 ab122932. Mouse embryos at E4.5, 5.5 and 7.0 were fixed in cold acetone and stained with ab122932 or DAPI (blue). The antibody was detected with anti-rabbit IgG conjugated with ALEXA568 (red). The ICM (the inner cell mass) and trophoblast (T) are indicated by arrows and arrowheads, respectively. The epiblast (E), and the embryonic ectoderm (EE) and extraembryonic region (EX) are indicated by square brackets. Dnmt3b existed at E4.5-7.0, in ICM at E4.5, the epiblast at E5.5, and the embryonic ectoderm at E7.0.

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